3RH2344-1DB40-0KA0

Data sheet



Contactor relay, 4 NO + 4 NC, 24 V DC, screw terminal Size S00, plugged-on varistor

product type designation product type designation General technical data size of contactor product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value 4 at DC shock resistance with sine pulse at DC at DC mechanical service life (switching cycles) of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during storage relative humildity minimum relative humildity minimum relative humildity minimum so 000 S00 Availiary contactor SRH2 Availiary contactor SRH2 S00 S00 S00 S00 S00 S00 S00 S	product brand name	SIRIUS	
Solition	product designation	Auxiliary contactor	
size of contactor product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value • at DC shock resistance with sine pulse • at DC at DC shock resistance with sine pulse • at DC for ontactor typical • of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 5 000 No 10 000 1	product type designation	3RH2	
product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value • at DC • of contactor typical • of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum	General technical data		
insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value • at DC • of contactor typical • of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 690 V	size of contactor	S00	
value 3 surge voltage resistance rated value 6 kV shock resistance at rectangular impulse 10g / 5 ms, 5g / 10 ms ◆ at DC 15g / 5 ms, 8g / 10 ms shock resistance with sine pulse 15g / 5 ms, 8g / 10 ms ◆ at DC 15g / 5 ms, 8g / 10 ms mechanical service life (switching cycles) 0 contactor typical ◆ of contactor typical 10 000 000 reference code according to IEC 81346-2 K Substance Prohibitance (Date) 07/01/2006 Ambient conditions 07/01/2006 installation altitude at height above sea level maximum 2 000 m ambient temperature 0 during operation -25 +60 °C 0 during storage -55 +80 °C relative humidity minimum 10 %	product extension auxiliary switch	No	
surge voltage resistance rated value shock resistance at rectangular impulse • at DC 10g / 5 ms, 5g / 10 ms shock resistance with sine pulse • at DC 15g / 5 ms, 8g / 10 ms mechanical service life (switching cycles) • of contactor typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 6 kV 8 kV 8 v 10 00 / 5 ms, 8g / 10 ms 10 000 000 K 10 000 000 10 000 000 10 000 000 10 000 00		690 V	
shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC 15g / 5 ms, 8g / 10 ms mechanical service life (switching cycles) • of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10g / 5 ms, 5g / 10 ms 15g / 5 ms, 8g / 10 ms 10 000 000 K C C C C C C C C C C C C	degree of pollution	3	
■ at DC shock resistance with sine pulse ■ at DC	surge voltage resistance rated value	6 kV	
shock resistance with sine pulse • at DC 15g / 5 ms, 8g / 10 ms mechanical service life (switching cycles) • of contactor typical 10 000 000 reference code according to IEC 81346-2 K Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage relative humidity minimum 10 000 000 C 10 000 0	shock resistance at rectangular impulse		
 ◆ at DC mechanical service life (switching cycles) ◆ of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature ◆ during operation ◆ during storage relative humidity minimum 15g / 5 ms, 8g / 10 ms 10 000 000 K 2 07/01/2006 X 2 000 m -25 +60 °C -55 +80 °C relative humidity minimum 10 % 	• at DC	10g / 5 ms, 5g / 10 ms	
mechanical service life (switching cycles) • of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 000 000 K K 2 007/01/2006 A C 10 000 m 10 000 000 C	shock resistance with sine pulse		
• of contactor typical	• at DC	15g / 5 ms, 8g / 10 ms	
reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum K 07/01/2006 Ambient conditions 2 000 m -25 +60 °C -55 +80 °C relative humidity minimum 10 %	mechanical service life (switching cycles)		
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 07/01/2006 2 000 m -25 +60 °C -55 +80 °C 10 %	of contactor typical	10 000 000	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 2 000 m -25 +60 °C -55 +80 °C	reference code according to IEC 81346-2	K	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 2 000 m -25 +60 °C -55 +80 °C	. ,	07/01/2006	
ambient temperature	Ambient conditions		
 during operation during storage telative humidity minimum -25 +60 °C 10 % 	installation altitude at height above sea level maximum	2 000 m	
◆ during storage −55 +80 °C relative humidity minimum 10 %	ambient temperature		
relative humidity minimum 10 %	during operation	-25 +60 °C	
	during storage	-55 +80 °C	
relative humidity at 55 °C according to IEC 60068-2-30 95 %	relative humidity minimum	10 %	
maximum	relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit	Main circuit		
no-load switching frequency	no-load switching frequency		
• at AC 10 000 1/h	• at AC	10 000 1/h	
• at DC 10 000 1/h	• at DC	10 000 1/h	
Control circuit/ Control	Control circuit/ Control		
type of voltage of the control supply voltage DC	type of voltage of the control supply voltage	DC	
control supply voltage at DC	control supply voltage at DC		
• rated value 24 V	rated value	24 V	
operating range factor control supply voltage rated value of magnet coil at DC			
• initial value 0.8	• initial value	0.8	
• full-scale value 1.1	full-scale value	1.1	
design of the surge suppressor with varistor	design of the surge suppressor	with varistor	
closing power of magnet coil at DC 4 W	closing power of magnet coil at DC	4 W	

holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	4
instantaneous contact	4
number of NO contacts for auxiliary contacts	4
 instantaneous contact 	4
identification number and letter for switching	44 E
elements	
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
 at 400 V rated value 	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at 1 current path at DC-12	
at 24 V rated value	10 A
• at 110 V rated value	3 A
at 220 V rated value	1 A
at 440 V rated value	0.3 A
at 600 V rated value	0.15 A
operational current with 2 current paths in series at DC-12	
at 24 V rated value	10 A
at 60 V rated value	10 A
at 110 V rated value	4 A
at 220 V rated value	2 A
at 440 V rated value	1.3 A
at 600 V rated value	0.65 A
operational current with 3 current paths in series at	
DC-12	
 at 24 V rated value 	10 A
 at 60 V rated value 	10 A
• at 110 V rated value	10 A
at 220 V rated value	3.6 A
at 440 V rated value	2.5 A
at 600 V rated value	1.8 A
operating frequency at DC-12 maximum	1 000 1/h
operational current at 1 current path at DC-13	C A
• at 24 V rated value	6 A
at 110 V rated value at 220 V rated value	1 A
at 220 V rated value at 440 V rated value	0.3 A 0.14 A
at 440 V rated valueat 600 V rated value	0.14 A 0.1 A
operational current with 2 current paths in series at DC-13	U.1 A
at 24 V rated value	10 A
at 60 V rated value	3.5 A
at 110 V rated value	1.3 A
at 220 V rated value	0.9 A
at 440 V rated value	0.2 A
at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	
at 24 V rated value	10 A
	10 A 4.7 A

General Product Approval	EMC
Certificates/ approvals	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
60529	
protection class IP on the front according to IEC	IP20
T1 value for proof test interval or service life according to IEC 61508	20 y
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
with high demand rate according to SN 31920	73 %
 with low demand rate according to SN 31920 	40 %
proportion of dangerous failures	
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
Safety related data	
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 for auxiliary contacts 	
type of connectable conductor cross-sections	
type of electrical connection for auxiliary and control circuit	screw-type terminals
Connections/ Terminals	
— at the side	6 mm
— downwards	10 mm
— upwards	10 mm
— forwards	10 mm
• for live parts	
— downwards	10 mm
— at the side	6 mm
— upwards	10 mm
— forwards	10 mm
for grounded parts	
— at the side	0 mm
— downwards	10 mm
— upwards	10 mm
— forwards	10 mm
with side-by-side mounting	
required spacing	
depth	117 mm
width	45 mm
height	57.5 mm
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Installation/ mounting/ dimensions	// 4000
auxiliary switch required	iuse giligo. 10 A
design of the fuse link for short-circuit protection of the	fuse gL/gG: 10 A
Short-circuit protection	A000 / Q000
contact rating of auxiliary contacts according to UL	A600 / Q600
UL/CSA ratings	Tradity Switching per 100 million (17 V, 1 mA)
protection of the auxiliary circuit up to 230 V contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
design of the miniature circuit breaker for short-circuit	C characteristic: 6 A; 0.4 kA
operating frequency at DC-13 maximum	1 000 1/h
at 600 V rated value	0.26 A
• at 440 V rated value	0.5 A
• at 220 V rated value	1.2 A



Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping











Confirmation

other

other

Railway

Dangerous Good



Vibration and Shock

<u>Transport Information</u>

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2344-1DB40-0KA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2344-1DB40-0KA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH2344-1DB40-0KA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

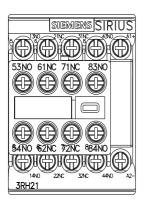
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2344-1DB40-0KA0&lang=en

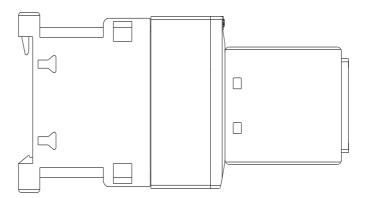
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2344-1DB40-0KA0/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2344-1DB40-0KA0&objecttype=14&gridview=view1





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